

# CHECK VALVES

## Application

- Check Valves permit airflow in one direction.
- Used for maintaining the output pressure at a constant level.

## Feature

- The check valves permit the airflow in one direction but stops in the reverse direction.
- The check valve works at the pressure of 0.1kgf/cm<sup>2</sup>, keeps 1.42 PSI in vacuum and connects at a low pressure.

## Specification

|                          |                                |                                   |
|--------------------------|--------------------------------|-----------------------------------|
| Fluid                    | Air(No other gases or liquids) |                                   |
| Working Pressure Range   | 0~150PSI                       | 0~9Kgf/cm <sup>2</sup> (0~900kPa) |
| Negative Pressure        | -29.50 in Hg                   | -750mmHg(10Torr)                  |
| Temperature Range        | 32~140 ° F                     | 0~60 ° C                          |
| Applicable Tube Material | Polyurethane and Nylon         |                                   |

## Product Code System

**PCVC O6-01 A**

(1) (2) (3) (4) (5)

- (1) Type  
(2) Tube Dia(  $\varnothing$ D)

|      |                 |                 |                 |                  |                  |
|------|-----------------|-----------------|-----------------|------------------|------------------|
| Code | 04              | 06              | 08              | 10               | 12               |
| Dia  | $\varnothing 4$ | $\varnothing 6$ | $\varnothing 8$ | $\varnothing 10$ | $\varnothing 12$ |

- (3) Thread Size(T)

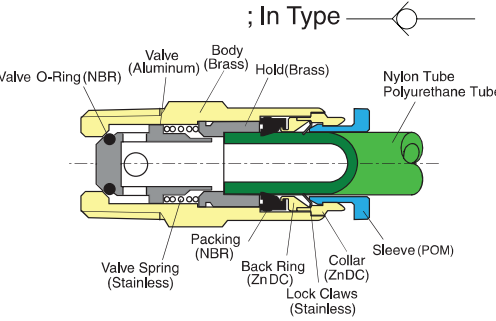
| Code | Metric Size |         | Taper Pipe Thread |      |      |      |
|------|-------------|---------|-------------------|------|------|------|
|      | M5          | M6      | 01                | 02   | 03   | 04   |
| Size | M5 x0.8     | M6 x1.0 | R1/8              | R1/4 | R3/8 | R1/2 |

## ④Control Method

| Type     | Meter IN                                                                            | Meter OUT                                                                           |
|----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Air Flow | Thread to Tube                                                                      | Tube to Thread                                                                      |
| PCVC     |  |  |
| PCVF     |  |  |
| PCVU     |  | In case of PCVU model, you should pipe according to signal of the body.             |

⑤U : Hexagon flat-to-flat inch specification.(NPT)

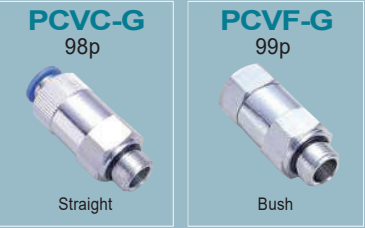
## Structural Diagram



# Check Valves



## Fitting with G Thread (O-Ring)



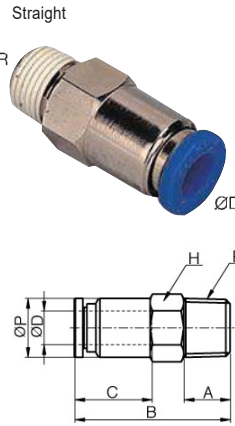
## CAUTION

- Be sure to read the "Common Precautions" and "Using Precautions of Fitting Series" (P6) before using.
- Be sure to confirm the direction of the stop instrument. Reverse direction will not allow airflow.

## WARNING

- Be careful of a scald by the heat generation on the body for the high frequency of stop circulation effect.

PCVC

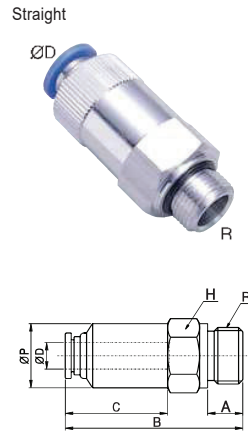


MODEL[ØD-T]

| Tube (Metric) - Thread(R) |    |      |
|---------------------------|----|------|
| MODEL                     | ØD | R    |
| PCVC 04-M5                | 4  | M5   |
| PCVC 04-M6                | 4  | M6   |
| PCVC 04-01                | 4  | R1/8 |
| PCVC 06-01                | 6  | R1/8 |
| PCVC 06-02                | 6  | R1/4 |
| PCVC 08-01                | 8  | R1/8 |
| PCVC 08-02                | 8  | R1/4 |
| PCVC 10-03                | 10 | R3/8 |
| PCVC 10-04                | 10 | R1/2 |
| PCVC 12-03                | 12 | R3/8 |
| PCVC 12-04                | 12 | R1/2 |

| Tube (Inch) - Thread (NPT) |      |           |
|----------------------------|------|-----------|
| MODEL                      | ØD   | R         |
| PCVC 5/32-U10U             | 5/32 | UNF10 *32 |
| PCVC 5/32-N01U             | 5/32 | NPT1/8    |
| PCVC 3/16-U10U             | 3/16 | UNF10 *32 |
| PCVC 3/16-N01U             | 3/16 | NPT1/8    |
| PCVC 3/16-N02U             | 3/16 | NPT1/4    |
| PCVC 1/4-N01U              | 1/4  | NPT1/8    |
| PCVC 1/4-N02U              | 1/4  | NPT1/4    |
| PCVC 5/16-N01U             | 5/16 | NPT1/8    |
| PCVC 5/16-N02U             | 5/16 | NPT1/4    |
| PCVC 3/8-N03U              | 3/8  | NPT3/8    |
| PCVC 3/8-N04U              | 3/8  | NPT1/2    |
| PCVC 1/2-N03U              | 1/2  | NPT3/8    |
| PCVC 1/2-N04U              | 1/2  | NPT1/2    |

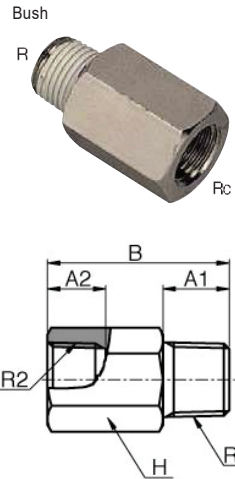
PCVC-G



MODEL[ØD-T]

| Tube (Metric) - Thread(G) |    |      |
|---------------------------|----|------|
| MODEL                     | ØD | R    |
| PCVC 04-G01               | 4  | G1/8 |
| PCVC 06-G01               | 6  | G1/8 |
| PCVC 06-G02               | 6  | G1/4 |
| PCVC 08-G01               | 8  | G1/8 |
| PCVC 08-G02               | 8  | G1/4 |
| PCVC 10-G03               | 10 | G3/8 |
| PCVC 10-G04               | 10 | G1/2 |
| PCVC 12-G03               | 12 | G3/8 |
| PCVC 12-G04               | 12 | G1/2 |

PCVF

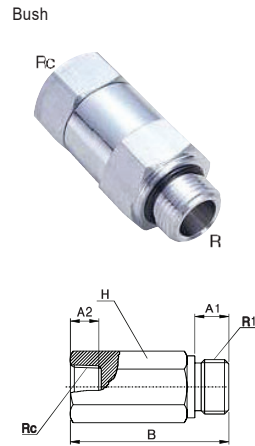


MODEL[ØD-T]

| Tube (Metric) - Thread(R) |      |       |
|---------------------------|------|-------|
| MODEL                     | R    | Rc    |
| PCVF 01-01                | R1/8 | Rc1/8 |
| PCVF 02-02                | R1/4 | Rc1/4 |
| PCVF 03-03                | R3/8 | Rc3/8 |
| PCVF 04-04                | R1/2 | Rc1/2 |

| Tube (Inch) - Thread (NPT) |        |        |
|----------------------------|--------|--------|
| MODEL                      | R      | Rc     |
| PCVF N01-N01U              | NPT1/8 | NPT1/8 |
| PCVF N02-N02U              | NPT1/4 | NPT1/4 |
| PCVF N03-N03U              | NPT3/8 | NPT3/8 |
| PCVF N04-N04U              | NPT1/2 | NPT1/2 |

PCVF-G



MODEL[ØD-T]

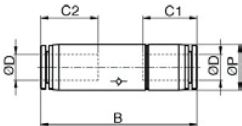
| Tube (Metric) - Thread(G) |      |      |
|---------------------------|------|------|
| MODEL                     | R    | Rc   |
| PCVF G01-G01              | G1/8 | G1/8 |
| PCVF G02-G02              | G1/4 | G1/4 |
| PCVF G03-G03              | G3/8 | G3/8 |
| PCVF G04-G04              | G1/2 | G1/2 |



Check Valves

PCVU

Union Straight



MODEL[ØD-T]

| Tube (Metric) - Thread(R) |    |
|---------------------------|----|
| MODEL                     | ØD |
| PCVU 04                   | 4  |
| PCVU 06                   | 6  |
| PCVU 08                   | 8  |
| PCVU 10                   | 10 |
| PCVU 12                   | 12 |

| Tube (Inch) - Thread (NPT) |      |
|----------------------------|------|
| MODEL                      | ØD   |
| PCVU 5/32                  | 5/32 |
| PCVU 3/16                  | 3/16 |
| PCVU 1/4                   | 1/4  |
| PCVU 5/16                  | 5/16 |
| PCVU 3/8                   | 3/8  |
| PCVU 1/2                   | 1/2  |